25X1 MC&G file 25X1A

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(S) NATIONAL RECONNAISSANCE OFFICE
WASHINGTON, D.C.

Original sent to [redacted] on 26 June 68 for 28 June MC&G meeting.

THE NRO STAFF

20 June 1968

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MEMORANDUM FOR [redacted] CHAIRMAN COMIREX MC&G WORKING GROUP

SUBJECT: Utilization of UTB Film in CORONA DISIC

The present CORONA program currently uses thin base film in the main cameras. It is planned to change to UTB for the main cameras very soon (CR-5). When the change occurs, the amount of film available for DISIC independent operations will be decreased unless certain changes such as using UTB in DISIC can be made.

The following cases outline the present situation and alternatives available:

Case#I

- o Present Situation - Operational Baseline
- o Pan cameras use thin base film
- o Average Pan camera mission operate time - 200 minutes/mission

	Slave Frames	Independent Frames	Available Frames	Operational % Change from Baseline	
	3:1 Mode	1:1 Mode	Unused	Slave	Independent
Terrain	1280	3520	0	0%	0%
Stellar	3840	3520	640		

NRO review(s) completed.

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Case #II

A. o Pans use UTB

o DISIC operates only in 1:1 Mode with present film load

	Slave Frames	Independent Frames	Available Frames	Operational % Change from Baseline	
	1:1 Mode	1:1 Mode	Unused	Slave	Independent
Terrain	1890	2910	0	+48%	-17%
Stellar	1890	2910	3200		

B. o Pans use UTB

o Add 200' (480 frames) to Terrain Load

o DISIC operates only 1:1 mode

Terrain	1890	3390	0	+48%	-3.5%
Stellar	1890	3390	2720		

Case#III

o DISIC uses UTB for Terrain (add 47% or 2250 frames)

o Pans use UTB

o DISIC 1:1 Mode only

	Slave Frames	Independent Frames	Available Frames	Operational % change from baseline	
	1:1 Mode	1:1 Mode	Unused	Slave	Independent
Terrain	1890	5160	0	+47%	+42%
Stellar	1890	5160	950		

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Examination of these cases shows that the independent (free-wheeling) mode of operation for the DISIC subsystem will be reduced by 17% per mission unless modifications are made. An additional 200 feet of thin base film may possibly be loaded on the supply cassettes; should this be done, the reduction in independent operation would be 3.5%.

The other alternative which appears feasible and attractive is the loading of the DISIC with UTB film. Should this be done the independent mode of operation would be increased by 42% over the current capability.

In view of the increased DISIC coverage possible for MC&G utilization with UTB, it is requested that a determination be made on the suitability of UTB film for MC&G purposes. It is desired that this determination be made by 15 July 1968 so that UTB film could be used on DISIC flights starting in CR-6.

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RUSSELL A. BERG
Brigadier General, USAF
Director

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